## **DBGET Search Result**

Attack to Applicants

### Database: LIGAND

Ligand Chemical Database, Combination of COMPOUND, GLYCAN, REACTION and ENZYME Release 27.04/09-25.

Release 27.04/09-25.

Institute for Chizla, Research, Kypto University
10,273 entries
10,373 entries
10,343 entries for COMPOUND, Chemical Compound Database
10,444 entries for ENGYMN, Chemical Reaction Database
5,813 entries for REACTION, Chemical Reaction Database
4,223 entries for REACTION, Chemical Reaction Database

# Keyword(s): biotin ligase (Total 16 hits. / limit=1000)

biotin-CoA ligase; biotinpl-CoA synthetase; biotin cot aynthetase; biotin-CoA synthetase; biotin-CoA synthetase; biotin-CoA-carboxylase synthetase; biotin-CoA-carboxylase synthetase; biotin-CoA-carboxylase synthetase; biotin-CoA-carboxylase (APP-Dydio)-Vision-CoA-carboxylase (APP-Dydio)-CoA-carboxylase (APP-Dydio)-CoA-carboxylase) synthetase; biotin-Cactyl-CoA-carboxylase) synthetase; biotin-Cactyl-CoA-cactyl-CoA-cactachord-Cactachord-

DBGET integrated database retrieval system, GenomeNet

9/23/03 3:41 PM

### [LinkDB]

```
ENTRY
            EC 6.3.4.15
NAME
            biotin-[acetyl-CoA-carboxylase] ligase
            biotin-[acetyl-CoA carboxylase] synthetase
            biotin-[acetyl coenzyme A carboxylase] synthetase
            acetyl coenzyme A holocarboxylase synthetase
            acetyl CoA holocarboxylase synthetase
            biotin:apocarboxylase ligase
            Biotin holoenzyme synthetase
            HCS
CLASS
            Ligases
            Forming carbon-nitrogen bonds
            Other carbon--nitrogen ligases
SYSNAME
            biotin:apo-[acetyl-CoA:carbon-dioxide ligase (ADP-forming)] ligase
            $(AMP-forming)
REACTION
            ATP + biotin +
            apo-[acetyl-CoA:carbon-dioxide ligase (ADP-forming)] = AMP +
            diphosphate + [acetyl-CoA:carbon-dioxide ligase (ADP-forming)]
SUBSTRATE
            biotin
            apo-[acetyl-CoA:carbon-dioxide ligase (ADP-forming)]
PRODUCT
            AMP
            diphosphate
            [acetyl-CoA:carbon-dioxide ligase (ADP-forming)]
REFERENCE
               [UI:75224638]
            Landman, A.D. and Dakshinamurti, K. Acetyl-Coenzyme A carboxylase.
            Role of the prosthetic group in enzyme polymerization. Biochem. J.
            145 (1975) 545-548.
PATHWAY
            PATH: MAP00780 Biotin metabolism
ORTHOLOG
            KO: KO1947 biotin-[acetyl-CoA-carboxylase] ligase
            HSA: 3141 (HLCS)
GENES
            MMU: 110948(Hlcs)
            SCE: YDL141W(BPL1)
            SPO: SPBC30D10.07c
            ECO: b3973(birA)
            ECJ: JW3941(birA)
            ECE: Z5544 (birA)
            ECS: ECs4900
            ECC: c4932(birA)
            STY: STY3741(birA)
            STM: STM4138(birA)
            YPE: YPO3759(birA)
            YPK: y0472(birA)
            SFL:
                 SF4051 (birA)
            SFX: S3689(birA)
            WBR: Wbr0240(birA)
            BFL: Bfl184(birA)
            HIN: HI0220.1(birA)
            PMU: PM0296(birA)
            XFA: XF1796
            XFT: PD1071 (birA)
            XCC: XCC3938(birA)
            XAC: XAC4018(birA)
            VCH: VC0319
            VVU: VV11198 VV11199
            VPA: VP2931
            PAE: PA4280 (birA)
            PPU: PP0437 (birA)
            PST: PSPTO0610(birA)
            SON: SO0214(birA)
            CBU: CBU1002(birA)
            NME: NMB2075
            NMA: NMA0357 (birA)
            CVI: CV0486(birA)
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RSO: RS03279(birA)
NEU: NE2459 (birA) NE2460 (birA)
HPY: HP1140 (birA)
HPJ: jhp1068
HHE: HH0421(birA)
WSU: WS0508(birA)
CJE: Cj0099 (birA)
RPR: RP533(birA)
RCO: RC0773(birA)
MLO: mll1351.
SME: SMc01928(birA)
ATU: Atu1284 (birA)
ATC: AGR C 2366(birA)
BME: BMEI1144
BMS: BR0816
BJA: bl14903(birA)
CCR: CC1936
BSU: BG11206(birA)
BHA: BH1685(birA)
BAN: BA1560(birA)
BCE: BC1537
OIH: OB1764 (birA)
SAU: SA1289
SAV: SAV1456
SAM: MW1346
SEP: SE1144
LMO: <a href="mo1904">1mo1904</a> (birA)
LIN: lin2018(birA)
LLA: L0191(birA1) L0192(birA2)
SPY: <u>SPy1362</u> (birA)
SPM: <u>spyM18</u> 1374 (birA)
SPG: SpyM3 1036(birA)
SPS: SPs0824
SPN: SP1900
SPR: spr1715(birA)
SAG: SAG0830
SAN: gbs0848
SMU: SMU.1578(birA)
LPL: <u>lp 0337</u>(birA1) <u>lp 0854</u>(birA2)
EFA: EF3240(birA)
CAC: CAC0212 CAC0589 (birA)
CPE: CPE0673(birA)
CTC: CTC00852(birA)
TTE: TTE1965 (birA)
MTU: Rv3279c (birA)
MTC: MT3379
MBO: Mb3307c(birA)
MLE: ML0732 (birA)
CGL: NCg10679(Cg10709)
CEF: CE0740
SCO: SCO4927 (SCK13.19)
BLO: BL1533
TWH: TW024 (birA)
TWS: TW026
FNU: FN1921
RBA: RB5918(birA)
CTR: CT725 (birA)
CMU: TC0098
CPN: CPn0866
CPA: CP1003
CPJ: birA
CPT: CpB0894(birA)
CCA: CCA00901
TPA: TP0357
LIL: LA0832(birA)
BTH: BT2238
SYN: sll1655(birA)
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SYW: SYNW1876(BirA)
            ANA: alr5256
            PMM: PMM0433(BirA)
            PMT: PMT1359(birA)
            CTE: CT0053(birA)
            DRA: DR2341
            AAE: aq 566(birA)
            TMA: TM0224
            MJA: MJ1619(birA)
            MAC: MA0676 (bpl)
            MMA: MM1829
            MTH: MTH1916
            AFU: AF0074(birA)
            PHO: PHO147
            PAB: PAB0096(birA) PAB0104(birA-like)
            PFU: PF0077 PF1676
            SSO: \overline{\text{SSO0662}} (bioR)
            STO: ST1525
DISEASE
            MIM: 253270
                          Holocarboxylase synthetase
STRUCTURES
            PDB: 1BIA 1BIB 1HXD
DBLINKS
            IUBMB Enzyme Nomenclature: 6.3.4.15
            ExPASy - ENZYME nomenclature database: 6.3.4.15
            WIT (What Is There) Metabolic Reconstruction: 6.3.4.15
            BRENDA, the Enzyme Database: 6.3.4.15
            CAS: 37340-95-7
111
```

### [KEGG | DBGET | GenomeNet ]

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### (FILE 'HOME' ENTERED AT 17:50:02 ON 23 SEP 2003)

	FILE	'CAPLUS	S' E	NTERED	AT	17:	50:07	ON	23	SEF	2003	
L1		39 8	MA'	TB								
L2		63 8	S MA	LONYL?	(21	W) (	SYNTH	ETAS	E C	DR S	YNTHAS	SE)
L3		94 9	5 L1	OR L2								
L4		3 5	L2	AND C	OEL]	ICOL	JOR					

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